A 16-year-old male presented with a painless right testicular mass, known for the past 2 years and that had recently increased in size. Physical examination confirmed a hard testicular mass and no evidence of lymphadenopathy or of gynecomastia. Laboratory results, including tumor markers, were normal.

Ultrasound (US) revealed a solid mass in the upper pole of the right testis that was well circumscribed, avascular, and displayed the onionskin appearance suggestive of testicular epidermoid cyst (1,2) (Figure-1).

Magnetic resonance (MR) confirmed the well-circumscribed intra-testicular mass with a...

**Figure 1 - a.** Longitudinal US image of the right testis show a bilobulated mass in the upper medial aspect of the testis. The mass had sharp margins, composed of a central echogenic area and of alternating hyperechogenic and hypoechochogenic rings in the periphery (onionskin sign), measuring 2.4 x 1.7 x 1.7 cm. **b.** Longitudinal Doppler-US image of the right testis demonstrates the absence of vascularization of the mass.
central area hyperintense on T1 and hypointense on T2 and a peripheral area isointense on T1 and hyperintense on T2, displaying the target or bull’s eye appearance, typical of testicular epidermoid cyst (1,2) (Figure-2). The remaining testicular parenchyma was unremarkable.

Surgical enucleation of the right testicular mass was performed (3). The pathological analysis of the surgical specimen confirmed the clinical and radiological proposed diagnosis (1,2,4) (Figure-3). The postoperative follow-up was uneventful.

The case presented demonstrates the clinical, ultrasound, and MR findings diagnostic of testicular epidermoid cyst with macroscopy correlation. The recognition of the typical imaging findings of testicular epidermoid cyst can suggest the pre-operative diagnosis of this rare benign tumor thus allowing to considered organ-preserving surgery and its associated psychological and cosmetic benefits.

**REFERENCES**


**Correspondence address:**

Dr. Lígia Pires-Gonçalves  
Department of Imagiology, Hospital de Braga  
Largo Carlos Amarante, 2242  
Braga, 4701-965, Portugal  
Fax: + 351 253 613-334  
E-mail: l.f.p.goncalves@gmail.com